

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: December 2, 2002, 01:30:59 ; search time 18.4272 Seconds
(without alignments)
6074.559 Million cell updates/sec

Title: us-09-856-979-7
Perfect score: 365
Sequence: 1 tcagccagaccatggggc.....tccatcaagcgcgcgatg 365

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
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6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	365	100.0	2407	1	US-08-104-072B-8
2	365	100.0	2407	1	US-08-351-413-9
3	365	100.0	2407	2	US-09-025-583-9
4	365	100.0	5349	4	US-09-068-101-7
5	365	100.0	6548	3	US-08-817-188-2
6	363.4	99.6	6548	3	US-08-894-440-1
7	363.4	99.6	6548	4	US-09-458-093-1
8	35.2	9.6	1831	6	5215881-1
9	35.2	9.6	1831	6	5215881-3
10	31.2	8.5	152	1	US-08-136-277-4
11	31.2	8.5	152	2	US-08-479-403-4
12	31.2	8.5	152	3	US-08-835-734-4
13	31.2	8.5	1441	1	US-08-136-277-18
14	31.2	8.5	1441	2	US-08-479-403-18
15	31.2	8.5	1441	3	US-08-835-734-18
16	31.2	8.5	4403765	4	US-09-103-840A-2
17	30.6	8.4	4380	4	US-08-955-565A-3
18	30.4	8.3	806	3	US-09-154-083-7
19	30.4	8.3	1680	1	US-08-014-723-13
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29	29.8	8.2	519	2	US-08-581-528A-5	Sequence 5, Appli
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31	29.8	8.2	1436	4	US-09-471-396-2	Sequence 2, Appli
32	29.8	8.2	7218	1	US-08-232-463-14	Sequence 14, Appli
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ALIGNMENTS

RESULT 1
US-08-104-072B-8
; Sequence 8, Application US/08104072B
; Patent No. 5639948
; GENERAL INFORMATION:
; APPLICANT: Michiels, Frank
; APPLICANT: Morioka, Sinji
; APPLICANT: Scheirlinck, Trees
; APPLICANT: Komari, Toshihiko
; TITLE OF INVENTION: Stamen-specific Promoters from Rice
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 3100 No. 5639948west Center
; CITY: Minneapolis
; STATE: MN
; COUNTRY: USA
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/104.072B
; FILING DATE: 05-AUG-1993
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO 9200272
; FILING DATE: 06-FEB-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 91403352.7
; FILING DATE: 10-DEC-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 91402590.3
; FILING DATE: 27-SEP-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 91400318.1
; FILING DATE: 08-FEB-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Kowalchuk, Katherine M.
; REGISTRATION NUMBER: 36,848
; REFERENCE/DOCKET NUMBER: 8076.930SWO
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612-332-5300
; TELEFAX: 612-332-9081
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2407 base pairs
; TYPE: nucleic acid

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; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; ORIGINAL SOURCE:
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: promoter
; LOCATION: 1..2263
; OTHER INFORMATION: /function= "anther-specific
; OTHER INFORMATION: promoter PE1"
; FEATURE:
; NAME/KEY: TATA_signal
; LOCATION: 2181..2187
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2111
; OTHER INFORMATION: /product= "Transcription initiation
; OTHER INFORMATION: site"
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; NAME/KEY: misc_feature
; LOCATION: 2264
; OTHER INFORMATION: /product= "ATG start translation of
; OTHER INFORMATION: El gene"
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US-08-104-072B-8
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Best Local Similarity 100.0%; Pred. No. 2.8e-106;
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 2142 TGACTCACCTGGCACATTCGCCCGCGCGTGGCGCGCGCTACAAAAGCCACACCGCACG 2201
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Db 2262 CGATG 2266
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RESULT 2

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US-08-351-413-9
; Sequence 9, Application US/08351413
; Patent No. 5750867
; GENERAL INFORMATION:
; APPLICANT: Williams, Mark
; APPLICANT: Leemans, Jan
; TITLE OF INVENTION: Maintenance of male-sterile plants
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BIRCH, STEWART, KOLASCH & BIRCH
; STREET: 8110 Gatehouse Road, Suite 500 East
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: U.S.A.
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; ZIP: 2046
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
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; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/351,413
; FILING DATE:
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/899,072
; FILING DATE: 12-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/970,849
; FILING DATE: 03-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Svensson, Leonard R.
; REGISTRATION NUMBER: 30,330
; REFERENCE/DOCKET NUMBER: 2121-102PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 205-8000
; TELEFAX: (703) 205-8050
; TELEX: 248345
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2407 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Oryza sativa
; STRAIN: Akihikari
; FEATURE:
; NAME/KEY: -
; LOCATION: 1..2263
; OTHER INFORMATION: /label= PE1
; OTHER INFORMATION: /note= "sequence comprising anther specific
; OTHER INFORMATION: promoter PE1"
; FEATURE:
; NAME/KEY: -
; LOCATION: 2181..2187
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; FEATURE:
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; LOCATION: 2211
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; LOCATION: 2264..2266
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US-08-351-413-9
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Best Local Similarity 100.0%; Pred. No. 2.8e-106;
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3
US-09-025-583-9
; Sequence 9, Application US/09025583
; Patent No. 5977433
; GENERAL INFORMATION:
; APPLICANT: Williams, Mark
; APPLICANT: Leemans, Jan
; TITLE OF INVENTION: Maintenance of male-sterile plants
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BIRCH, STEWART, KOLASCH & BIRCH
; STREET: 8110 Gatehouse Road, Suite 500 East
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 2046
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; FILING DATE:
; APPLICATION NUMBER: US/09/025,583
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/351,413
; FILING DATE:
; APPLICATION NUMBER: US 07/899,072
; FILING DATE: 12-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/970,849
; FILING DATE: 03-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Svensson, Leonard R.
; REGISTRATION NUMBER: 30,330
; REFERENCE/DOCKET NUMBER: 2121-102PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 205-8000
; TELEFAX: (703) 205-8050
; TELEX: 248345

INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 2407 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Oryza sativa
STRAIN: Akihikari
FEATURE:

; NAME/KEY: -
; LOCATION: 1..2263
; OTHER INFORMATION: /label= PE1
; OTHER INFORMATION: /note= "sequence comprising anther specific
; OTHER INFORMATION: promoter PE1"
; FEATURE:
; NAME/KEY: -
; LOCATION: 2181..2187
; OTHER INFORMATION: /label= TATA
; OTHER INFORMATION: /note= "TATA Box"
; FEATURE:
; NAME/KEY: -
; LOCATION: 2211
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; OTHER INFORMATION: site determined by primer extension"
; FEATURE:
; NAME/KEY: -
; LOCATION: 2264..2266
; OTHER INFORMATION: /label= ATG
; OTHER INFORMATION: /note= "ATG start of translation of El gene"
; US-09-025-583-9
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Best Local Similarity 100.0%; Pred No. 2.8e-106;
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 2262 CGATG 2266

RESULT 4
US-09-068-101-7
; Sequence 7, Application US/09068101
; Patent No. 6372960
; GENERAL INFORMATION:
; APPLICANT: PLANT GENETIC SYSTEMS N.V.
; TITLE OF INVENTION: Improved Baistar Gene
; FILE REFERENCE: 2121-139P
; CURRENT APPLICATION NUMBER: US/09/068,101
; CURRENT FILING DATE: 1998-08-26
; EARLIER APPLICATION NUMBER: Ep 96202446.9
; EARLIER FILING DATE: 1996-09-03
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 5349
; TYPE: DNA
; ORGANISM: Artificial Sequence

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NAME/KEY: misc_feature
LOCATION: Complement((98)..(331))
OTHER INFORMATION: label = 3'g7, "region containing 3' untranslated
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NAME/KEY: misc_feature
LOCATION: Complement((332)..(883))
OTHER INFORMATION: label = bar, "region coding for phosphinotricin
FEATURE:
NAME/KEY: misc_feature
LOCATION: Complement((884)..(2258))
OTHER INFORMATION: label = P35S, "35S promoter of Cauliflower Mosaic
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2281)..(3969)
OTHER INFORMATION: label = PE1, "promoter of E1 gene of rice (WO
FEATURE:
NAME/KEY: misc_feature
LOCATION: (3970)..(4245)
OTHER INFORMATION: label = synb*, "Improved barstar DNA"
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NAME/KEY: misc_feature
LOCATION: (4246)..(4577)
OTHER INFORMATION: label = 3'chs, "region containing 3' untranslated
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NAME/KEY: misc_feature
LOCATION: Complement((5325)..(5349))
OTHER INFORMATION: label = LB, "T-DNA left border"
US-09-068-101-7

Query Match      100.0%; Score 365; DB 4; Length 5349;
Best Local Similarity 100.0%; Pred. No. 4e-106;
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 361 CGATG 365
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RESULT 5

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; Sequence 2, Application US/08817188
; Patent No. 6074876
; GENERAL INFORMATION:
; APPLICANT: DE BLOCK, MARC
; TITLE OF INVENTION: GENETIC TRANSFORMATION USING A PARP INHIBITOR
; FILE REFERENCE: 2121-0127P
; CURRENT APPLICATION NUMBER: US/08/817,188
; EARLIER FILING DATE: 1997-05-15
; EARLIER APPLICATION NUMBER: PCT/EP96/03366
; EARLIER FILING DATE: 1996-07-31
; EARLIER APPLICATION NUMBER: EP 95401844.6
; EARLIER FILING DATE: 1995-08-04
; NUMBER OF SEQ ID NOS: 5
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; SEQ ID NO 2
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; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: plasmid pTS172
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: Complement((2019)..(2288))
; OTHER INFORMATION: 3' nos: 3' untranslated region containing the
; OTHER INFORMATION: polyadenylation signal of the nopaline synthase
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; NAME/KEY: misc_feature
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; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: Complement((2625)..(4313))
; OTHER INFORMATION: PE1: promoter region of E1 gene of rice
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (4336)..(5170)
; OTHER INFORMATION: P35S: 35S promoter region of Cauliflower Mosaic
; OTHER INFORMATION: Virus
; FEATURE:
; NAME/KEY: misc_feature
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; OTHER INFORMATION: bar: region coding for phosphinotricin
; OTHER INFORMATION: acetyltransferase
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (6263)..(6496)
; OTHER INFORMATION: 3'g7: 3' untranslated region containing the
; OTHER INFORMATION: polyadenylation signal of gene 7 of Agrobacterium
; OTHER INFORMATION: T-DNA
; US-08-817-188-2

Query Match      100.0%; Score 365; DB 3; Length 6548;
Best Local Similarity 100.0%; Pred. No. 4.3e-106;
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 301 CGGCGCAGTAACCCATCCTAGCATCCGCTGTCAGCAAGAGATCCATCAAGCCGTCG 360
Db 2686 CGGCGCAGTAACCCATCCTAGCATCCGCTGTCAGCAAGAGATCCATCAAGCCGTCG 2627
QY 361 CGATG 365
Db 2626 CGATG 2622

RESULT 6
US-08-894-440-1/c
; Sequence 1, Application US/08894440
; Patent No. 6025546
; GENERAL INFORMATION:
; APPLICANT: PLANT GENETIC SYSTEMS N.V.
; TITLE OF INVENTION: Method to obtain male sterile plants
; FILE REFERENCE: NMSCOR
; CURRENT APPLICATION NUMBER: US/08/894,440
; CURRENT FILING DATE: 1997-11-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 6548
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: plasmid pTS174
; NAME/KEY: misc_feature
; LOCATION: (1)..(2003)
; OTHER INFORMATION: pUC19 derived vector sequences (vector)
; NAME/KEY: misc_feature
; LOCATION: Complement((2019)..(2283))
; OTHER INFORMATION: 3' nos: region containing polyadenylation signal
; OTHER INFORMATION: of nopaline synthase gene of Agrobacterium
; NAME/KEY: misc_feature
; LOCATION: Complement((2284)..(2624))
; OTHER INFORMATION: region coding for barnase of Bacillus
; NAME/KEY: misc_feature
; LOCATION: (1)..(2003)
; OTHER INFORMATION: pUC19 derived vector sequences (vector)
; NAME/KEY: misc_feature
; LOCATION: Complement((2625)..(4313))
; OTHER INFORMATION: promoter of the stamen-specific E1 gene of rice
; NAME/KEY: misc_feature
; LOCATION: (4336)..(5710)
; OTHER INFORMATION: 35S promoter of Cauliflower Mosaic Virus (P35S)
; NAME/KEY: misc_feature
; LOCATION: (5711)..(6262)
; OTHER INFORMATION: region coding for phosphinothricin acetyl
; NAME/KEY: misc_feature
; LOCATION: (6263)..(6496)
; OTHER INFORMATION: region containing polyadenylation signal fo gene 7
; OTHER INFORMATION: of Agrobacterium T-DNA (3'g7)
US-08-894-440-1
Query Match 99.6%; Score 363.4; DB 3; Length 6548;
Best Local Similarity 99.7%; Pred. No. 1.4e-105;
Matches 364; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 1 TCAGCCAGACCAATGGGGGCAAAATTTACTACTATTTTGGCATACATTAACACAGCTAAAAG 60
Db 2986 TCAGCCAGACCAATGGGGGCAAAATTTACTACTATTTTGGCATACATTAACACAGCTAAAAG 2927
QY 61 TCCTACACTCAACCTAACTGTTGAACGGTCTCTGTCTGGCCAAGGGTGAGAAATGCACCTA 120
Db 2926 TCCTACACTCAACCTAACTGTTGAACGGTCTCTGTCTGGCCAAGGGTGAGAAATGCACCTA 2867
QY 121 ATGACGGGGAACACACTTCTTTACCGCTGCTACTGTCTGTAGAGCGGTGGACGCG 180
Db 2866 ATGACGGGGAACACACTTCTTTACCGCTGCTACTGTCTGTAGAGCGGTGGACGCG 2807
QY 181 TGAGTGTCTTTCGCCATGACCGTCTTGGTTGTGTCAGTCACTTGCACGCTTGCACCG 240
Db 2806 TGAGTGTCTTTCGCCATGACCGTCTTGGTTGTGTCAGTCACTTGCACGCTTGCACCG 2747
QY 241 TGACTCACTGCCACATTTGCCCGCGCTCGCGCGCTTACAAAAGCCACACAGCAGC 300
Db 2746 TGACTCACTGCCACATTTGCCCGCGCTCGCGCGCTTACAAAAGCCACACAGCAGC 2687
QY 301 CCGGCCAGATAACCCATCCTAGCATCCCGGTGTCCAGCAAGAGATCCATCAAGCCGTCG 360
Db 2686 CCGGCCAGATAACCCATCCTAGCATCCCGGTGTCCAGCAAGAGATCCATCAAGCCGTCG 2627
QY 361 CGATG 365
Db 2626 CGATG 2622

RESULT 7
US-09-458-093-1/c
; Sequence 1, Application US/09458093
; Patent No. 6344602
; GENERAL INFORMATION:
; APPLICANT: PLANT GENETIC SYSTEMS N.V.
; TITLE OF INVENTION: Method to obtain male sterile plants
; FILE REFERENCE: NMSCOR
; CURRENT APPLICATION NUMBER: US/09/458,093
; CURRENT FILING DATE: 1999-12-10
; PRIOR FILING DATE: 1997-11-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 6548
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: plasmid pTS174
; NAME/KEY: misc_feature
; LOCATION: (1)..(2003)
; OTHER INFORMATION: pUC19 derived vector sequences (vector)
; NAME/KEY: misc_feature
; LOCATION: Complement((2019)..(2283))
; OTHER INFORMATION: 3' nos: region containing polyadenylation signal
; OTHER INFORMATION: of nopaline synthase gene of Agrobacterium
; NAME/KEY: misc_feature
; LOCATION: Complement((2284)..(2624))
; OTHER INFORMATION: region coding for barnase of Bacillus
; NAME/KEY: misc_feature
; LOCATION: (1)..(2003)
; OTHER INFORMATION: pUC19 derived vector sequences (vector)
; NAME/KEY: misc_feature
; LOCATION: Complement((2625)..(4313))
; OTHER INFORMATION: promoter of the stamen-specific E1 gene of rice
; NAME/KEY: misc_feature
; LOCATION: (4336)..(5710)
; OTHER INFORMATION: 35S promoter of Cauliflower Mosaic Virus (P35S)
; NAME/KEY: misc_feature
; LOCATION: (5711)..(6262)
; OTHER INFORMATION: region coding for phosphinothricin acetyl
; NAME/KEY: misc_feature
; LOCATION: (6263)..(6496)
; OTHER INFORMATION: transferase (bar)
; NAME/KEY: misc_feature
; LOCATION: (6263)..(6496)
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OTHER INFORMATION: region containing polyadenylation signal fo gene 7
OTHER INFORMATION: of Agrobacterium T-DNA (3'g7)
US-09-458-093-1

Query Match 99.6%; Score 363.4; DB 4; Length 6548;
Best Local Similarity 99.7%; Pred. No. 1.4e-105;
Matches 364; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCAGCCAGACCAATGGGGGCAAAATTTACTACTATTTGCCATACATTAACCCACGTAAAG 60
DB 2986 TCAGCCAGACCAATGGGGGCAAAATTTACTACTATTTGCCATACATTAACCCACGTAAAG 2927

QY 61 TCCTACACTCAACCTAACTGTGAACGGTCTGTCTGCGCAACGGTGAGAAATGCACCTA 120
DB 2926 TCCTACACTCAACCTAACTGTGAACGGTCTGTCTGCGCAACGGTGAGAAATGCACCTA 2867

QY 121 ATGAGCGGGAACAACACTTCTTTACCGTGCTACTGCTACATCTCTGTAGACGGTGAGCGG 180
DB 2866 ATGAGCGGGAACAACACTTCTTTACCGTGCTACTGCTACATCTCTGTAGACGGTGAGCGG 2807

QY 181 TGAGGTGCTTTGCGCATGACCGTCTTGGTGTGTCAGTCACTTGGCGACGCTTGACCG 240
DB 2806 TGAGGTGCTTTGCGCATGACCGTCTTGGTGTGTCAGTCACTTGGCGACGCTTGACCG 2747

QY 241 TGACTCACCTGCCACATGCCCCCGCGTCCGCGCGCTACAAAAGCCACACACGCAAG 300
DB 2746 TGACTCACCTGCCACATGCCCCCGCGTCCGCGCGCTACAAAAGCCACACACGCAAG 2687

QY 301 CCGGCCAGGATAACCCATCTTAGCATCCCGGTGTCCAGCAAGAGATCCATCAAGCCGTGG 360
DB 2686 CCGGCCAGGATAACCCATCTTAGCATCCCGGTGTCCAGCAAGAGATCCATCAAGCCGTGG 2627

QY 361 CGATG 365
DB 2626 CGATG 2622

RESULT 8
5215881-1
; Patent No. 5215881
; APPLICANT: CHEUNG, ANDREW K.
; TITLE OF INVENTION: PSEUDORABIES DIAGNOSIS PROBES
; NUMBER OF SEQUENCES: 3
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/537,855
; FILING DATE: 13-JUN-1990
; FILING DATE:
; SEQ ID NO:1:
; LENGTH: 1831
5215881-1

Query Match 9.6%; Score 35.2; DB 6; Length 1831;
Best Local Similarity 54.7%; Pred. No. 0.11;
Matches 70; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

QY 194 CCATGACCGTCTTGGTGTTCAGTCACTTGGCAGCGTTGCACCGTGACTCACCTGCC 253
DB 1537 CCGTCCGCGCGCGCGGTGCGTGCGAGCGCCGCGACCCCGGCCACACACCGGCA 1596

QY 254 ACATTGCCCGCGCGTGCGCGCGCTACAAAAGCCACACACGCGCGCGCCACGATAA 313
DB 1597 CCACACCGGCATCATCGTCCCGCTCTCCACATACACGCTCGCAGCTCGGGCCACAGCT 1656

QY 314 CCCATCCT 321
DB 1657 CCGTCTCT 1664

RESULT 9
5215881-3
; Patent No. 5215881
; APPLICANT: CHEUNG, ANDREW K.
; TITLE OF INVENTION: PSEUDORABIES DIAGNOSIS PROBES

NUMBER OF SEQUENCES: 3
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/537,855
FILING DATE: 13-JUN-1990
FILING DATE:
SEQ ID NO:3:
LENGTH: 1831
5215881-3

Query Match 9.6%; Score 35.2; DB 6; Length 1831;
Best Local Similarity 54.7%; Pred. No. 0.11;
Matches 70; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

QY 194 CCATGACCGTCTTGGTGTTCAGTCACTTGGCAGCGTTGCACCGTGACTCACCTGCC 253
DB 1537 CCGTCCGCGCGCGGTGCGTGCGAGCGCCGCGACCCCGGCCACACACCGGCA 1596

QY 254 ACATTGCCCGCGCGTGCGCGCGCTACAAAAGCCACACACGCGCGCGCCACGATAA 313
DB 1597 CCACACCGGCATCATCGTCCCGCTCTCCACATACACGCTCGCAGCTCGGGCCACAGCT 1656

QY 314 CCCATCCT 321
DB 1657 CCGTCTCT 1664

RESULT 10
US-08-136-277-4/c
; Sequence 4, Application US/08136277
; Patent No. 5644045
; GENERAL INFORMATION:
; APPLICANT: MANDEL, Jean-Louis
; APPLICANT: AUBOURG, Patrick
; APPLICANT: MOSSER, Jean
; APPLICANT: SARDE, Claude
; TITLE OF INVENTION: X-LINKED ADRENOLEUKODYSTROPHY GENE AND
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Young & Thompson
; STREET: 745 South 23rd Street
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/136,277
; FILING DATE: 15-OCT-1993
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: PATCH, Andrew J.
; REGISTRATION NUMBER: 32,925
; REFERENCE/DOCKET NUMBER: B272
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-521-2297
; TELEFAX: 703-685-0573
; TELEX: 248425 EMBON
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 152 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-136-277-4

Query Match 8.5%; Score 31.2; DB 1; Length 152;
Best Local Similarity 57.0%; Pred. No. 0.76;

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Matches 57; Conservative 0; Mismatches 43; Indels 0; Gaps 0;
QY 194 CCATGACCGTCCTGTTGTTGTCAGTCACTTGCACGACGTTGCACCGTCACTCACTGCC 253
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 102 CCGGGCCCGCCAGACAGTGTCCACCGCTCAGGGTGCCTGCCCGGGGCTCCCTGCC 43
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 254 ACATTGCCCGCGCGTGCAGTCACTTGCACGACGTTGCACCGTCACTCACTGCC 293
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 42 ACAGGCTTCCCTCCGTCGCGCGACGCCCAACCTGCCCCAC 3
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 11
US-08-479-403-4/c
; Sequence 4, Application US/08479403
; Patent No. 5869039
; GENERAL INFORMATION:
; APPLICANT: MANDEL, Jean-Louis
; APPLICANT: AUBOURG, Patrick
; APPLICANT: MOSSER, Jean
; APPLICANT: SARDE, Claude
; TITLE OF INVENTION: X-LINKED ADRENOLEUKODYSTROPHY GENE AND
; TITLE OF INVENTION: CORRESPONDING PROTEIN
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Young & Thompson
; STREET: 745 South 23rd Street
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/479,403
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: PATCH, Andrew J.
; REGISTRATION NUMBER: 32,925
; REFERENCE/DOCKET NUMBER: B2272DIV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-521-2297
; TELEX: 248425 EMBON
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 152 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-479-403-4

Query Match 8.5%; Score 31.2; DB 2; Length 152;
Best Local Similarity 57.0%; Pred. No. 0.76;
Matches 57; Conservative 0; Mismatches 43; Indels 0; Gaps 0;
QY 194 CCATGACCGTCCTGTTGTTGTCAGTCACTTGCACGACGTTGCACCGTCACTCACTGCC 253
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 102 CCGGGCCCGCCAGACAGTGTCCACCGCTCAGGGTGCCTGCCCGGGGCTCCCTGCC 43
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 254 ACATTGCCCGCGCGTGCAGTCACTTGCACGACGTTGCACCGTCACTCACTGCC 293
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 42 ACAGGCTTCCCTCCGTCGCGCGACGCCCAACCTGCCCCAC 3
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 12
US-08-835-734-4/c
; Sequence 4, Application US/08835734
; Patent No. 6013769
```

```
GENERAL INFORMATION:
; APPLICANT: MANDEL, Jean-Louis
; APPLICANT: AUBOURG, Patrick
; APPLICANT: MOSSER, Jean
; APPLICANT: SARDE, Claude
; TITLE OF INVENTION: X-LINKED ADRENOLEUKODYSTROPHY GENE AND
; TITLE OF INVENTION: CORRESPONDING PROTEIN
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Young & Thompson
; STREET: 745 South 23rd Street
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/835,734
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/479,403
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: PATCH, Andrew J.
; REGISTRATION NUMBER: 32,925
; REFERENCE/DOCKET NUMBER: B2272DIV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-521-2297
; TELEX: 703-685-0573
; TELEFAX: 248425 EMBON
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 152 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-835-734-4

Query Match 8.5%; Score 31.2; DB 3; Length 152;
Best Local Similarity 57.0%; Pred. No. 0.76;
Matches 57; Conservative 0; Mismatches 43; Indels 0; Gaps 0;
QY 194 CCATGACCGTCCTGTTGTTGTCAGTCACTTGCACGACGTTGCACCGTCACTCACTGCC 253
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 102 CCGGGCCCGCCAGACAGTGTCCACCGCTCAGGGTGCCTGCCCGGGGCTCCCTGCC 43
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 254 ACATTGCCCGCGCGTGCAGTCACTTGCACGACGTTGCACCGTCACTCACTGCC 293
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 42 ACAGGCTTCCCTCCGTCGCGCGACGCCCAACCTGCCCCAC 3
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 13
US-08-136-277-18/c
; Sequence 18, Application US/08136277
; Patent No. 5644045
; GENERAL INFORMATION:
; APPLICANT: MANDEL, Jean-Louis
; APPLICANT: AUBOURG, Patrick
; APPLICANT: MOSSER, Jean
; APPLICANT: SARDE, Claude
; TITLE OF INVENTION: X-LINKED ADRENOLEUKODYSTROPHY GENE AND
; TITLE OF INVENTION: CORRESPONDING PROTEIN
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Young & Thompson
; STREET: 745 South 23rd Street
; CITY: Arlington
```

STATE: VA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/136,277
FILING DATE: 15-OCT-1993
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: PATCH, Andrew J.
REGISTRATION NUMBER: 32,925
REFERENCE/DOCKET NUMBER: B2272
TELEPHONE: 703-521-2297
TELEFAX: 703-685-0573
TELEX: 248425 EMBON
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 1441 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-136-277-18

Query Match 8.5%; Score 31.2; DB 1; Length 1441;
Best Local Similarity 57.0%; Pred. No. 1.9;
Matches 57; Conservative 0; Mismatches 43; Indels 0; Gaps 0;
Oy 194 CCATGACCGTCCTTGGTTGTCAGTCACCTTGGCCACGCTTGCACCGTGACCTCACCCTGCC 253
Db 1391 CCGGCGCCGCCAGACTGTCCACCGCTACGCGCTGCGCCGGGCTCCCTGCC 1332
Oy 254 ACATTGCCCGCGCGCTGCGCGCGCTACAAAAGCCAC 293
Db 1331 ACAGCGTTCCTCGTCCGCGCGCCACCCCAACCTGCCCCAC 1292

RESULT 14
US-08-479-403-18/c
Sequence 18, Application US/08479403
Patent No. 5869039
GENERAL INFORMATION:
APPLICANT: MANDEL, Jean-Louis
APPLICANT: AUBOURG, Patrick
APPLICANT: MOSSER, Jean
APPLICANT: SARDE, Claude
TITLE OF INVENTION: X-LINKED ADRENOLEUKODYSTROPHY GENE AND
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Young & Thompson
STREET: 745 South 23rd Street
CITY: Arlington
STATE: VA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/479,403
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: PATCH, Andrew J.
REGISTRATION NUMBER: 32,925

REFERENCE/DOCKET NUMBER: B2272DIV
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-521-2297
TELEFAX: 703-685-0573
TELEX: 248425 EMBON
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 1441 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-479-403-18
Query Match 8.5%; Score 31.2; DB 2; Length 1441;
Best Local Similarity 57.0%; Pred. No. 1.9;
Matches 57; Conservative 0; Mismatches 43; Indels 0; Gaps 0;
Oy 194 CCATGACCGTCCTTGGTTGTCAGTCACCTTGGCCACGCTTGCACCGTGACCTCACCCTGCC 253
Db 1391 CCGGCGCCGCCAGACTGTCCACCGCTACGCGCTGCGCCGGGCTCCCTGCC 1332
Oy 254 ACATTGCCCGCGCGCTGCGCGCGCTACAAAAGCCAC 293
Db 1331 ACAGCGTTCCTCGTCCGCGCGCCACCCCAACCTGCCCCAC 1292

RESULT 15
US-08-835-734-18/c
Sequence 18, Application US/08835734
Patent No. 6013769
GENERAL INFORMATION:
APPLICANT: MANDEL, Jean-Louis
APPLICANT: AUBOURG, Patrick
APPLICANT: MOSSER, Jean
APPLICANT: SARDE, Claude
TITLE OF INVENTION: X-LINKED ADRENOLEUKODYSTROPHY GENE AND
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Young & Thompson
STREET: 745 South 23rd Street
CITY: Arlington
STATE: VA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/835,734
FILING DATE:
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/479,403
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: PATCH, Andrew J.
REGISTRATION NUMBER: 32,925
REFERENCE/DOCKET NUMBER: B2272DIV
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-521-2297
TELEX: 248425 EMBON
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 1441 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)

2.